



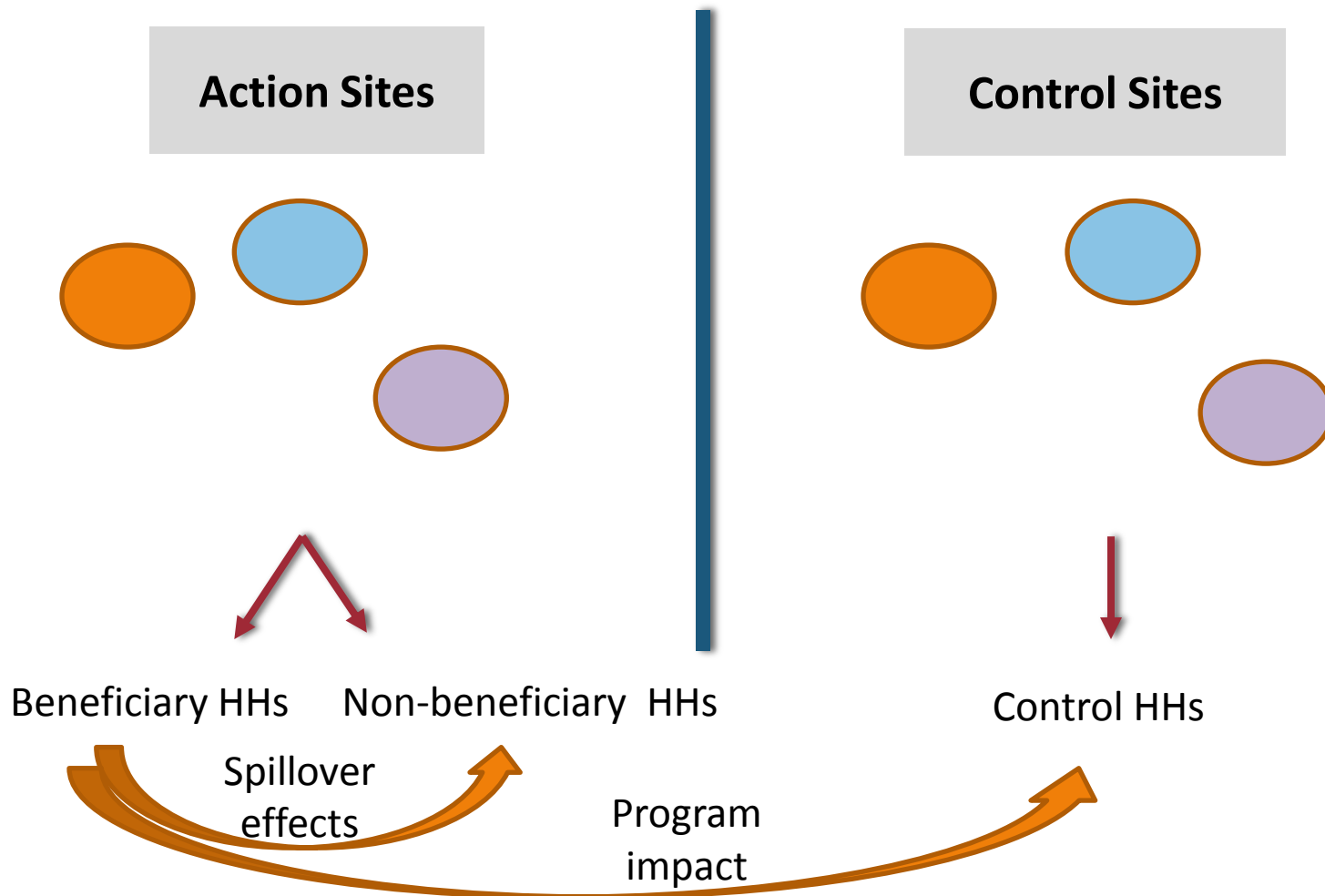
Malawi AR Baseline Survey 2013 – A few data highlights

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Schnitzer, Ainsley Charles, and IKI

AR-CSISA M&E Meeting, Addis
Ababa, Nov 11-13, 2013



IE Design (for Malawi)





Example from Malawi: Total land used (acres)

	Treatment Group <i>(Randomized to treatment)</i>	Counterfactual <i>(Randomized to Comparison)</i>	Impact <i>($Y \mid P=1$) - ($Y \mid P=0$)</i>
Baseline ($T=0$) [MARBES] (Y)	3.04	2.13	0.91
Follow-up ($T=1$) [MARBES] (Y)	??	??	??



Means and mean differences: Basic household characteristics

	Beneficiary Control		Difference: B-C
Household size	5.1	4.7	0.414***
Female headship rate	0.3	0.3	-0.054*
Age of household head	45.5	45.0	0.491
Household head is literate	0.7	0.6	0.092***
Dependency rate	112.3	120.2	-7.853
Observations	958		
	**	***	
= " * p<0.10	p<0.05	p<0.01"	



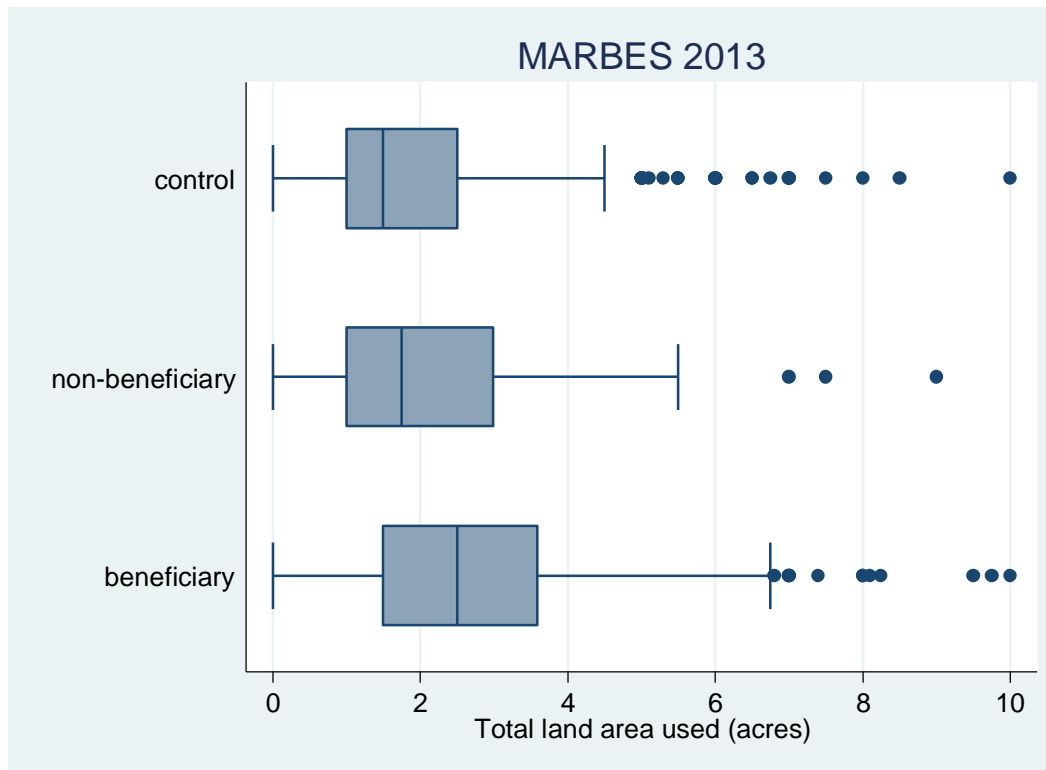
Means and mean differences: Agricultural characteristics and knowledge of Africa RISING

	Beneficiary Control		Difference: B-C
Have you heard of Africa RISING?	0.9	0.01	0.903***
Number of agricultural parcels	2.9	2.0	0.931***
Size of parcels (acres only)	2.9	2.0	0.902***
Size of parcels	3.0	2.1	0.907***
Observations	958		

= " * $p < 0.10$

** $p < 0.05$ $p < 0.01$

Visualizing differences: Parcel size





Means and Mean Differences: Livestock Ownership

	Fraction of Owners			Average # owned	
	Beneficiary	Control	Difference	Beneficiary	Control
Draught cattle	0.01	0.003	0.009	2.2	2.0
Bulls -local	0.03	0.004	0.025***	2.8	1.0
Fattening cattle - local	0.002	0	0.002	3.0	
Cows -local	0.07	0.02	0.056***	3.5	3.3
Heifers -local	0.02	0.001	0.023***	2.0	1.0
Calves -local	0.04	0.004	0.035***	2.0	0.7
Horse/donkey/mule	0	0.001	-0.001		2.0
Goats -local	0.5	0.3	0.208***	4.0	0.1
Goats -improved	0	0.003	-0.003		3.5
Pigs -local	0.2	0.1	0.128***	3.4	3.1
Pigs -improved	0.007	0.01	-0.006	3.3	2.0
Chickens	0.7	0.5	0.188***	8.3	0.8
Fish	0	0	0		
Other livestock	0.1	0.09	0.052**	8.0	0.1
Honey bees	0	0.003	-0.003		4.0
Observations	1148			880	

= " * p<0.10 ** p<0.05 *** p<0.01"



Means and Mean Differences of Child Nutritional Outcomes

	Beneficiary	Control	Difference
Height-for-Age(Z-score)	-1.6	-1.8	0.206
Weight-for-Age(Z-score)	-0.5	-0.8	0.342
Weight-for-Height(Z-score)	0.9	0.1	0.728*
Observations	549		

	Beneficiary	Control	Difference
Child is underweight (moderate)	12.0	12.6	-0.616
Child is underweight (severe)	0.5	3.6	-3.025**
Child is stunted (moderate)	42.4	36.7	5.650
Child is stunted (severe)	18.1	14.4	3.672
Child is wasted (moderate)	2.8	4	-1.159
Child is wasted (severe)	0	1.4	-1.429
Observations	549		

= "* p<0.10 ** p<0.05 *** p<0.01"



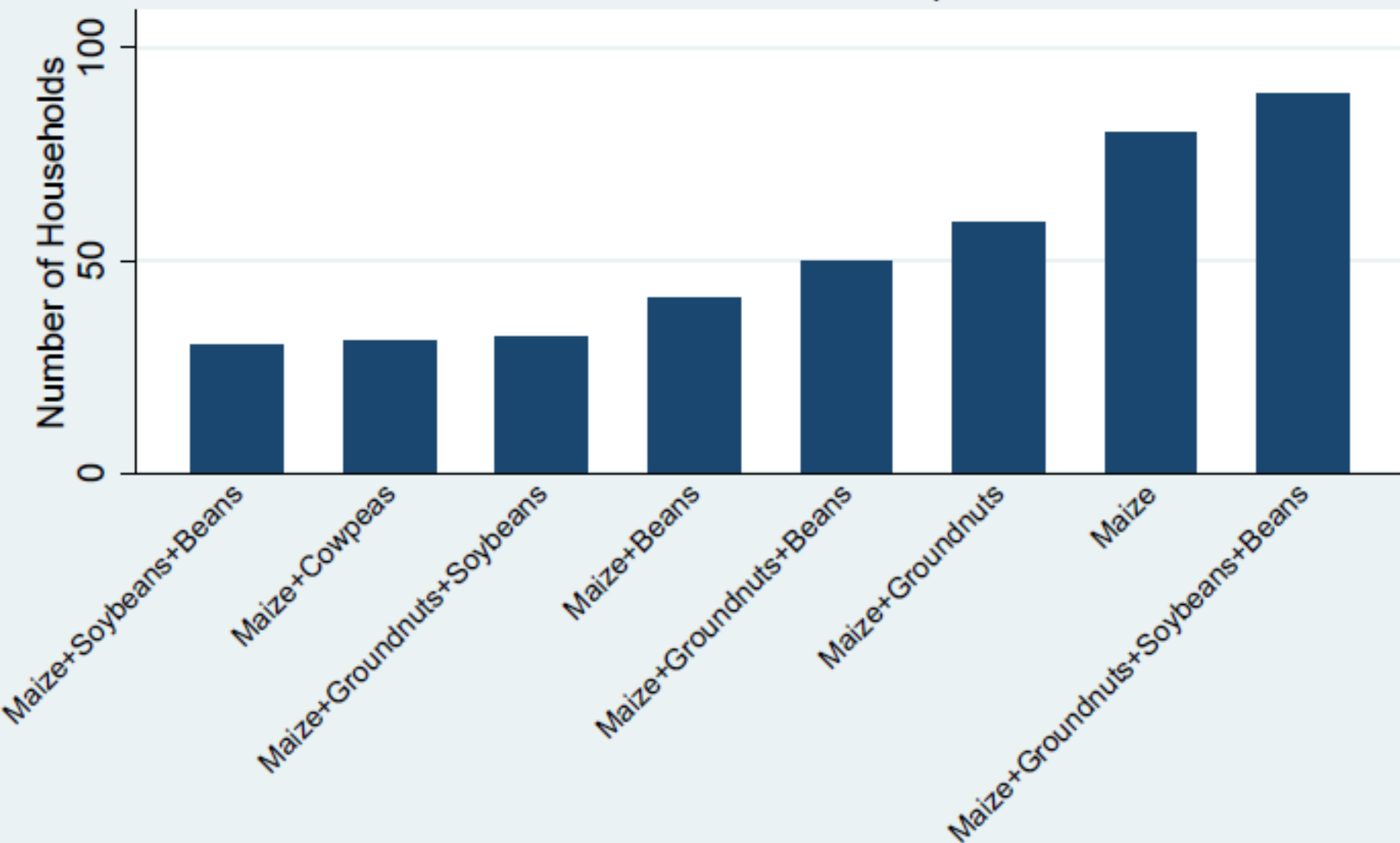
WHO classification for assessing severity of malnutrition by prevalence ranges among children under 5 years of age

Indicator	Severity of malnutrition by prevalence ranges (%)			
	Low	Medium	High	Very high
Stunting	<20	20-29	30-39	>=40
Underweight	<10	10-19	20-29	>=30
Wasting	< 5	5-9	10-14	>=15

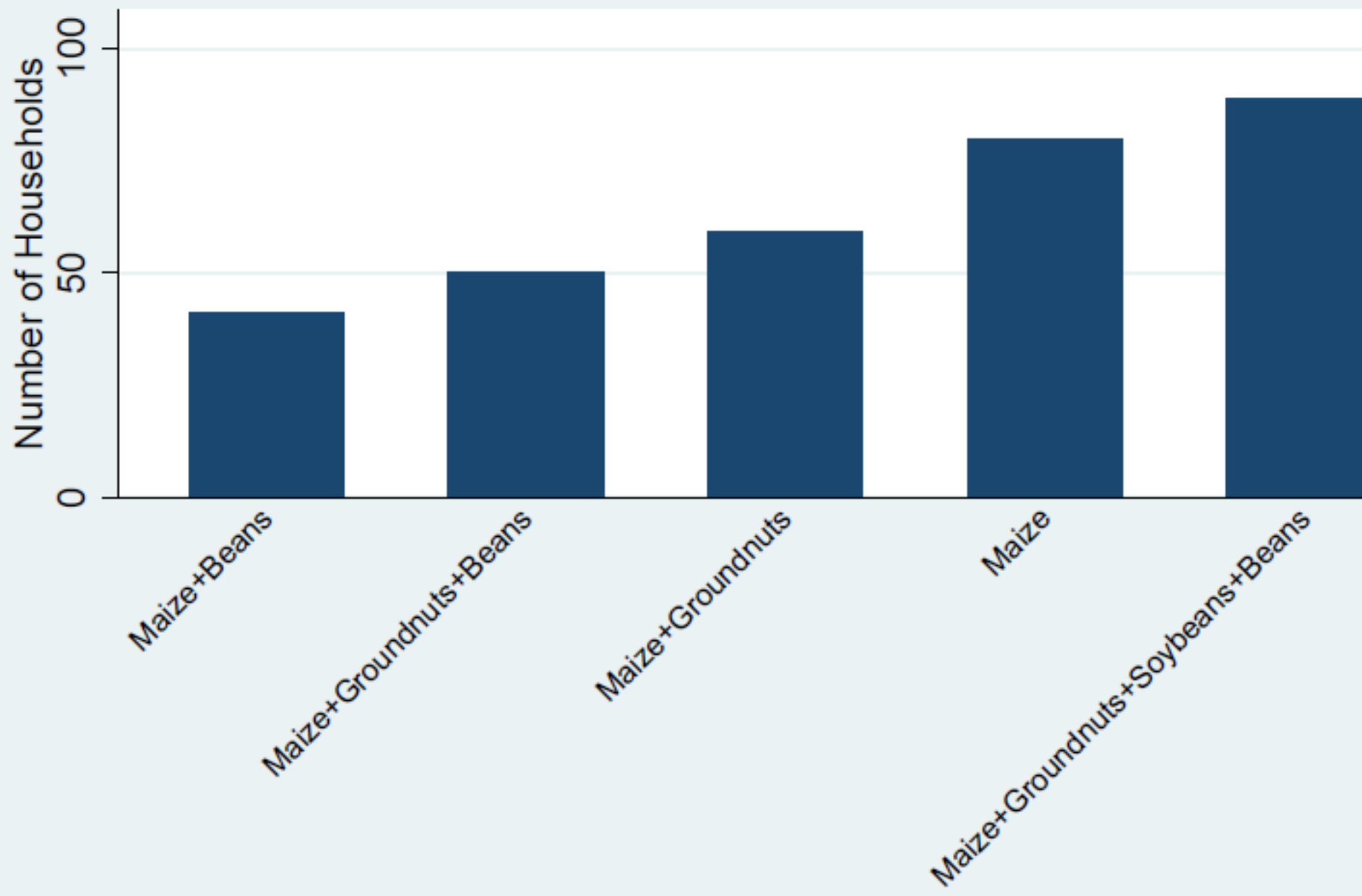


Means and mean differences: Crops

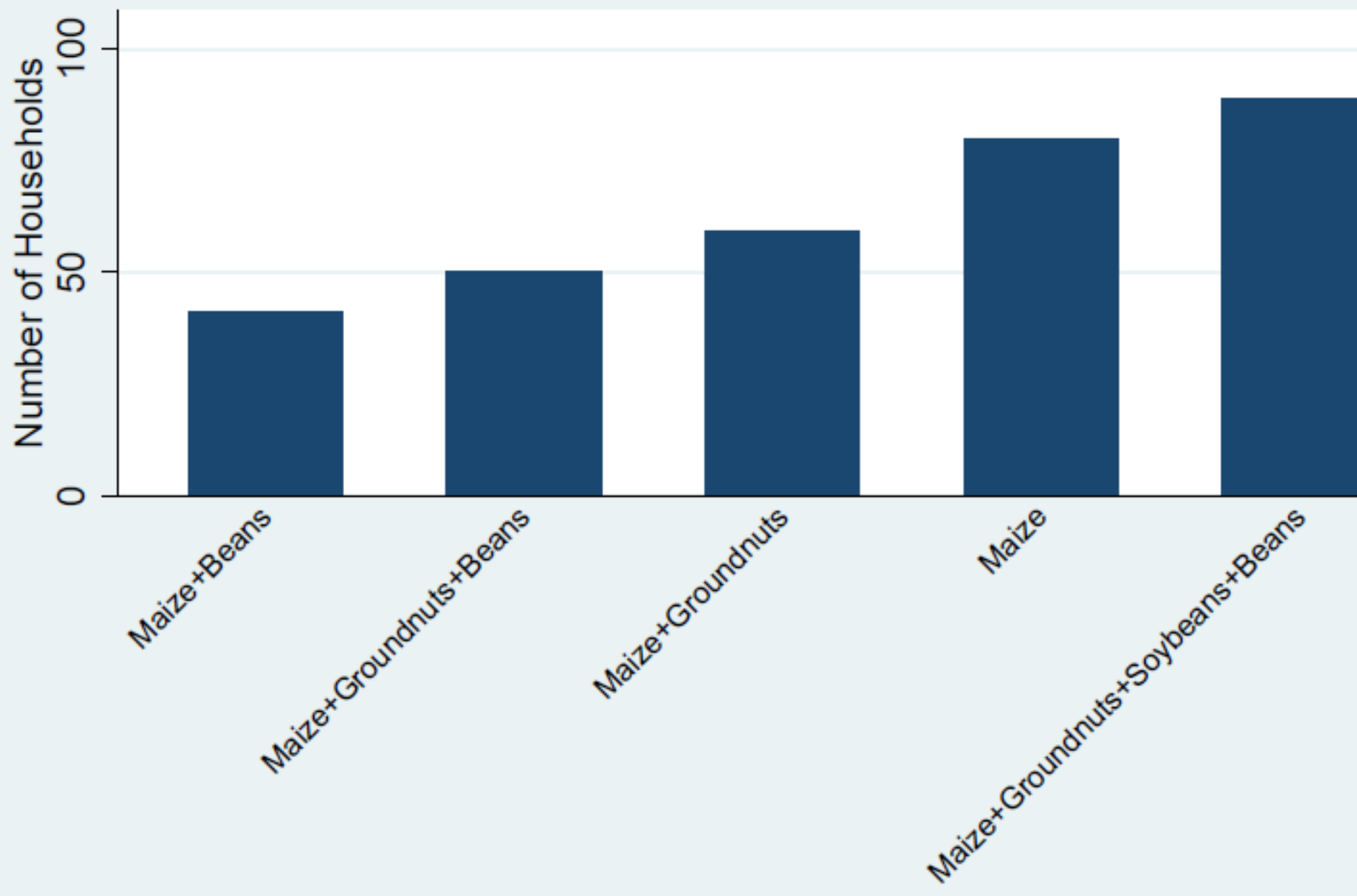
Number of All Households Growing Combinations of Crops



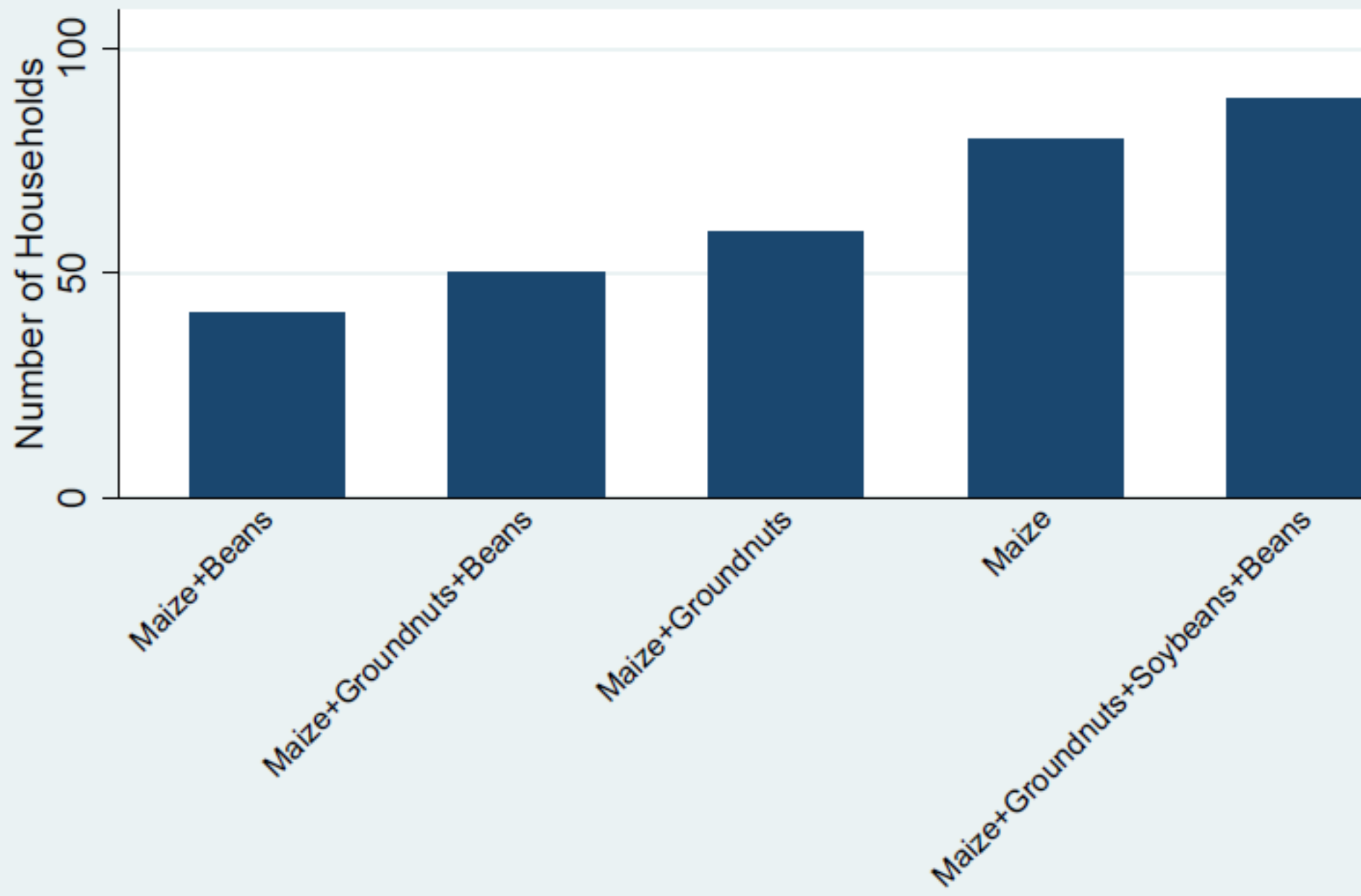
Number of Beneficiary Households Growing Combinations of Crops



Number of Control Households Growing Combinations of Crops



Number of Non-beneficiary Households Growing Combinations of Crops



Other indicators?

- See the question
- <http://ardata.harvestchoice.org/dataset/africarising-baseline-evaluation-survey-2013>aire!



Africa Research in Sustainable Intensification for the Next Generation

africa-rising.net



AVRDC
The World Vegetable Center

